

## TECHNICAL DATA MARMURA

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### TECHNICAL FEATURES:

MARMURA is an innovative one-component ready-to-use paste for the coating of very low thickness internal and external floors and walls, with great performance in terms of yield, mechanical resistance, flexibility and processing, applicable both on new screeds and on old existing floors. MARMURA is a highly professional product should only be colored, mixed and applied. Thanks to the absence of epoxy resins MARMURA is in total absence of yellowing.

With MARMURA the problem of the pot-life that we find in epoxy resins and micro cements is eliminated, once the container has been opened, the remainders, if well closed, not diluted and well preserved, can be reused for about twenty-four months.

MARMURA is an authentic marble ceramic effect, it does not contain cement or other hygroscopic components that direct and prolonged contact with water, can preclude performance, must be protected with DECOR FINISH and demonstrates excellent water permeability, especially in stagnation.

MARMURA's performances are extraordinarily high in terms of hardness, flexibility and tensile strength and compression, is reinforced with ceramic microspheres, special nano fibers, micro resins of the latest generation and additives. MARMURA is resistant to mold, algae and bacteria, and in particular an extraordinary ability to oppose the spread of flames and the development of fumes, is an environmentally sustainable and advanced product, does not contain \*Formaldehyde added and \*APEO, very low VOC content.

### FIELDS OF USE:

MARMURA was created to cover floors, walls and ceilings both inside and outside of great prestige, intended for the great design and renovation of public and private environments, shopping centers, shops, bars, villas, residences, swimming pools, balconies, terraces, bathrooms, shower, saunas, kitchens, furniture and furnishings with the particularity of the total absence of joints, allows you to obtain continuous solutions between the floor and the wall, all this to meet the needs of modern and contemporary architecture.

### PREPARATION OF SUBSTRATES AND APPLICATION:

- Clean and degrease perfectly, make a careful check of good seal and cohesion.
- On a floor or wall covering with a smooth surface free from gaps and joints, apply a single layer of BETON KA+KB and let it dry for 24 hours.
- On a floor or covering in cement screed and/or old tiles we recommend applying a single layer of BETON KA+KB by drowning a 70-80 gr/m<sup>2</sup> glass fiber mesh using a 3mm notched trowel and cover the mesh, let it dry for at least 24h.
- Apply a first layer of MARBLE using a stainless-steel trowel and taking care to give the surface the desired texture and leave the product to dry for 12 hours.
- Apply a second layer of MARMURA to perfect leveling and obtain the desired aesthetic effect and leave the product to dry for about 24 hours. At this stage it is essential to use a specific stainless-steel trowel that does not cause unpleasant greyish burns.
- If you want to obtain a surface that is perfectly smooth and soft to the touch, after drying the second layer of MARMURA, sand the entire surface using a random orbital sander with 120 grit sandpaper.
- Perfectly vacuum all traces of dust and clean with a damp cloth to perfectly de-dust the surface.
- Apply a first protective layer of DECOR FINISH with a mohair roller, leaving it to dry for 12 hours.
- Before applying the second protective layer of DECOR FINISH, make sure that the surface is perfectly clean and free from dust, clean and vacuum all traces of dust, apply a second protective layer of DECOR FINISH with a mohair roller, letting it dry for another 12 hours.
- Proceed with cleaning the surface as before and apply the third protective layer of DECOR FINISH with a mohair roller, let it dry for 24 hours.

## WARNINGS AND RECOMMENDATIONS:

- Avoid applying the product with relative humidity of air above 80%;
- Do not apply on damp supports or where the presence of rising or infiltrating moisture has been established;
- Measure with a carbide hygrometer at a depth of 4 cm that the humidity level is below 3%.
- Cover windows, doors, etc.;
- The floor will be suitable for pedestrian traffic only after two days from the last layer of applied protective finish, for frequent washing and the laying of furniture it will be necessary to wait at least five days from the last layer of applied protective finish.

## CHARACTERISTICS OF INSTALLATION:

- Paste product and ready to use, max 10% of water in the final layer to improve leveling
- Mix the crystal balls well into the product using an electric mixer before use;
- Temperature of use: +5°C and +35°C;
- Drying time: About 8 hours;
- Total hardening: ~24 hours;
- Resistance to water and UV rays: ~5 days;
- Store in a cool, dry place away from the sun, +5°C and +30°C.;
- Do not apply in the presence of beating sun, strong wind or rain;

## PERFORMANCE FEATURES:

- Tensile strength (EN 13892-2): 38 N/mm<sup>2</sup> after 28 days
- Compressive strength (EN 13892-2): 38 N/mm<sup>2</sup> after 28 days
- Flexural strength (EN 13892-2): 36 Nm after 28 days
- Impact resistance (UNI EN ISO 6272-1): 0.500 / m Nm/501
- Resistance to permeability (UNI EN 1062-3): 0.0001 kg/m<sup>2</sup> \* h<sub>0.5</sub> after 5 days
- Reaction to fire (EN 13501-1) CLASS 1 after 28 days
- Resistance to adhesion on concrete (EN 13892-8): 6 N/mm<sup>2</sup> after 28 days
- Determination of the chair with wheels (EN 425): absolute absence of defects

Minimum/maximum thickness recommended for the application cycle is 3 mm. Consumption may vary according to the consistency, porosity, and condition of the surface, as well as the method of application.

The performance tests were carried out in our laboratories (laboratory temperature 21°C - humidity 65%).

## TECHNICAL DATA:

- Viscosity (UNI EN ISO 3219): ~ 130000 mPa\*s;
- Specific Weight of MARMURA (UNI EN ISO 2811-1): ~ 1,5 Kg\Lt ± 3%;
- Specific weight Crystal balls (UNI EN ISO 2811-1): ~ 2,1 Kg\Lt ± 3%;
- Yield in grams: ~ 800 gr/m<sup>2</sup> in two layers;
- Coverage with 7 liters: 15 m<sup>2</sup> in two layers;
- PH: >9.00;
- Appearance: White paste;
- Dilution: ready to use, max 10% drinking water;
- Touch dry: 3h at 20°C.;
- Walkable drying: 24h at 20°C.;
- Seasoning: 10/15 days at 20°C.;
- Packaging: 7 Lt buckets + 2.1 kg of crystal spheres (12.6 kg);
- Storage: 24 months in unopened packaging and protected from UV rays and humidity;
- Tints: From folder.;
- Classification for final use (UNI EN 1062.1-4.1): Decoration and Protection;
- Classification by type of binder (UNI EN 1062.1-4.2): Acrylic Microresin;
- Classification by state (UNI EN 1062.1-4.3): Aqueous dispersion;
- VOC classification: In compliance with D.L. No.161 of 03/27/2006 (Implementation of Directive 2004/42/EC);

## YIELDS OF PRODUCTS BY CYCLE:


- PRIMER NK LT 2,5: **10 m<sup>2</sup> single layer**
- BETON KA+KB kg 12 + lt 5: **15 m<sup>2</sup> single layer**
- MARMURA LT 7: **15 m<sup>2</sup> in two layers**
- DECOR FINISH LT 2,5: **10 m<sup>2</sup> in two layers**


## IMPORTANT NOTES:


- *The data may vary at any time without notice from Nikkolor Italy.*
- *The use of coloring pastes not provided by Nikkolor Italy can compromise not only the aesthetic appearance but above all can significantly alter the performance of the product itself.*
- *The information contained in these data sheets is the result of our best knowledge and, as such, are disclosed for information purposes, therefore does not commit the responsibility of our company against any disputes arising from conditions of use that are beyond our control, who intends to use it is required to determine whether the product is suitable for use or not.*
- *Our warranty obligation is therefore limited to the quality and consistency of the same with regard to the finished product, and exclusively for the data above.*
- **For more detailed information, please contact our TECHNICAL ASSISTANCE service.**


\* From 1 January 2016 in Italy, formaldehyde has been cataloged as a carcinogen. The IARC (International Agency for Research on Cancer) classifies these substances based on how harmful they are to humans.

\* APEO-free indicates the characteristic of a product free from APEO (alkylphenol ethoxylate), a substance dangerous for the environment and aquatic organisms. The REACH regulation (Regulations EC 552/2009 EC 1907/2006 REACH) prohibits the use of APEO in concentrations equal to or greater than 1,000 ppm (parts per million) in Europe.

Compressive strength 



Flexural strength 





Resistance to drive-over 



UV resistance 





Resistance to thermal shocks 





Abrasion resistance 





Resistance to frequent traffic 



Chemical resistance 





Resistance to liquids 



Vibration resistance 





High temperature resistance 



Low temperature resistance 




Resistance to atmospheric agents 





Scratch resistance 





Impact resistance 





Elasticity of the product 





Suitable for heated floors 





Applicable at high thickness 





Applicable at low thickness 





Breathable product 





Suitable cycle for rising damp 





Cycle Suitable for swimming pools with VL3D 



Permeability to water 





Adhesion power on various substrates 





Easy to clean 





Non-slip 



Antistatic support 



Quick to apply 





Respect the environment 



Light product after drying 




Magnetic effect 




Usage time after opening 




Hygienic and antibacterial 





Two-component **B**





Single component **M**



VOC free 





Formaldehyde free 



Colorable product 



Can be diluted with water 



Product applicable by brush 





Product applicable by spray 





Product applicable to trowel 



Roller applicable product 



Applicable product 



Product applicable indoors 



Product for professional use 





 **COMMERCIAL PROFESSIONAL**



 **RESIDENTIAL HOUSE**



 **PROFESSIONAL INDUSTRY**



  
 very low (red), low (orange), medium (yellow), high (green), very high (dark green)